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APPLICATION NO.	FILIN	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/544,878	04/07/2000		Michael Dennis Krysiak	P/23-5-CIP	1363
7590 12/21/2004				EXAMINER	
Philip M Wei	ss		VALENTI, ANDREA M		
Weiss & Weiss 310 Old Country Rd				ART UNIT	PAPER NUMBER
Suite 201				3643	
Garden City, NY 11530				DATE MAILED: 12/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/544,878	KRYSIAK ET AL.
Office Action Summary	Examiner	Art Unit
	Andrea M. Valenti	3643
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 01 C	October 2004.	
,	s action is non-final.	
3) Since this application is in condition for allowa closed in accordance with the practice under <i>E</i>	· · · · · · · · · · · · · · · · · · ·	
Disposition of Claims		•
4) ☐ Claim(s) 4-22 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 4-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examine	er.	
10)☐ The drawing(s) filed on is/are: a)☐ acc		
Applicant may not request that any objection to the	• • •	• •
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)	o∏	(DTO 442)
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 4-22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-10 of copending Application No. 09/710,309. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications teach applying a binder to a seed, applying a coating material, the coating material being in a solid state, utilizing an agglomeration operation.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 4-22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 6,209,259. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the pending application and the patent teach

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applying a binder to a seed that acts as the nucleus, applying a coating material, the coating material being in a solid state, utilizing an agglomeration operation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Size Enlargement By Agglomeration, by Wolfgang Pietsch, Published by Wiley, 1991, pages 134-145 in view of German Patent DE 3442317 to Schuart et al.

Regarding Claims 18-21, Wolfgang teaches a method of making seed (page 137 second paragraph) capsules in a single apparatus by tumble/agitation agglomeration operation by inherently preconditioning the seed with a binding agent while tumbling the seed in a bed of fine particulate to create layers of matter about the seed; the fine particulate being in a solid state when it comes in contact-with the seed after the seed has come in contact with the binder (Page 135 third paragraph, last sentence; page 135, fifth paragraph, 8th line; and page 136 section 4.2.1.1). Although Wolfgang teaches a seed, he does not explicitly teach that the seed is a plant seed. However, Schuart teaches that it is old and notoriously well-known to select a plant seed to undergo agglomeration (Schuart English translation title "Method of Coating Plant Seeds") for the advantage of applying fertilizers to the seed, for ease of handling of the seeds, for time released germination of the seed etc. Therefore, it would have been

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obvious to one of ordinary skill in the art to select a plant seed as the seed taught by Wolfgang since the modification is merely the selection of a known particulate nuclei.

Regarding Claims 4-17, Wolfgang as modified teaches an agglomeration process utilizing a tumble agglomeration (page 136 section 4.2.1.1), but Wolfgang is silent on specifically identifying a pan pellitizer, disk pellitizer, balling disk, paddle mixer, horizontal pan, powder blenders, flow-jet mixer, planetary mixer, cone mixer, ribbon mixer, pin type mixer, vertical mixer, pin mixer, cone pelletizer, fluidized bed. However, these apparatuses are all old and well-known seed coating, agglomeration, or mixing machines. It would have been obvious to one of ordinary skill in the art to modify the teachings of Wolfgang with any of the machines listed in claims 4-17 since these are merely alternate equivalent agglomeration machines that perform the same intended function of agglomerating particles with a coating and one would select a particular agglomeration machine to satisfy different economic, maintenance, and time parameters and to accommodate different types of coatings i.e. fertilizers or nutrient coatings.

Regarding Claim 22, Wolfgang is silent on the preconditioning and conditioning steps are repeated to add additional layers to the seed. However, it would have been obvious to one of ordinary skill in the art to modify the teachings since the modification is merely duplicating the process to provide a more comprehensive seed coat and does not present a patentably distinct limitation.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6 and 17-21 are rejected under 35 U.S.C. 102(b) as being anticipated by German Patent DE 3442317 to Schuart et al.

Regarding Claims 17, 19, 21, and 6, Schuart et al teaches a method of making seed capsules (Schuart English translations page 2 line 1) in a single apparatus by a tumbling/agitation agglomeration operation by preconditioning (Schuart English translation page 2 line 6-7; page 3 last sentence; page 7 last sentence; page 8 first complete sentence; page 9 first paragraph last sentence; page 10 line 8-9) the seed is the nucleus and receives a binding agent while tumbling the seed; conditioning the seeds by tumbling the seed in a bed of fine particulate to create layers of matter about the seed; and the fine particulate being in a solid sate when it comes in contact with the seed after the seed has come in contact with the binder (Schuart et al English translation pages 3, 7, and 8).

Regarding Claim 18, Schuart et al discloses wrapping more than one nucleus/seed in layers of fine particles (Schuart English translation page 3).

Regarding Claim 20, Schuart et al teaches the preconditioning of spraying a precoated material on the seed and subsequently driving off any binding agent used to apply the particulate layers on the seed (Schuart et al English translation claims).

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Patent DE 3442317 to Schuart et al.

Regarding Claims 4-16, Schuart et al teaches an agglomeration process utilizing a tumbler or rotating drum (Schuart et al English translation page 3), but Schuart et al is silent on specifically identifying a pan pellitizer, disk pellitizer, balling disk, paddle mixer, horizontal pan, powder blenders, flow-jet mixer, planetary mixer, cone mixer, ribbon mixer, pin type mixer, vertical mixer, pin mixer, cone pelletizer, fluidized bed. However, these apparatuses are all old and well-known seed coating or mixing machines. It would have been obvious to one of ordinary skill in the art to modify the teachings of Schuart et al with any of the machines listed in claims 4-17 since these are merely alternate equivalent agglomeration machines that perform the same intended function of agglomerating particles with a coating and one would select a particular agglomeration machine to satisfy different economic, maintenance, and time parameters and to accommodate different types of fertilizers or nutrient coatings.

Regarding Claim 22, Schuart et al is silent on the preconditioning and conditioning steps are repeated to add additional layers to the seed. However, it would have been obvious to one of ordinary skill in the art to modify the teachings since the

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modification is merely duplicating the process to provide a more comprehensive seed coat and does not present a patentably distinct limitation.

Response to Arguments

Applicant's arguments with respect to claims 4-22 in view of Wolfgang have been considered but are most in view of the new ground(s) of rejection.

Applicant's arguments filed 01 October 2004 in view of Schuart have been fully considered but they are not persuasive.

Examiner maintains that Schuart et al teaches that the fine particulate is in a solid state when it comes into contact with the seed after the seed has come in contact with the binder. Applicant argues that Schuart does not teach that the coating is in a solid state when applied to the seed. However, Schuart quite clearly states that the coating substance is a dust. Schuart outlines the method steps of the seed being agitated, since a revolving drum is a tumble agglomeration operation, and a binder is applied to the seed while simultaneously applying a dry dust coating. Some of the dust will inherently reach the seed in a solid state.

Examiner reiterates the response to arguments presented in the previous office action:

The declaration of Le Hoffmann filed 8 September 2003 is insufficient to over the come the rejection based upon Schuart. Hoffmann argued that the fine particulate and the liquid binder form an emulsion to coat the seed. However, since Schuart teaches the introduction of Kaolin in dust form some of the seed would inherently first encounter the spray of the binder before encountering the dust. Schuart does not teach an

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emulsion, but teaches the application of two separate substances from different sources to constitute the coating i.e. the binding agents is sprayed into the system and the a dust particles is separately introduced into the system. Schuart page 2 line 6-7 teaches that the binder/spray is sprayed onto the surface of the seed and that a powder material comes in contact with the seed material on page 3 last sentence. Also, Schuart teaches at the top of page 8 that the droplets of water are first deposited on the seed surface.

Applicant has not sufficiently illustrated that the method steps of applicant's design result in an entirely different end product then the end product of Schuart. Schuart teaches that tumble agglomeration is a known seed coating technology on page 3 last paragraph. Furthermore, Schuart teaches that it is old and notoriously well-known in the art to increase the size of seeds by coating them with particles. Merely selecting any known enlargement technology is an obvious modification to one of ordinary skill in the art at the time of the invention since the selection is merely a manufacturing design choice to achieve an efficient and cost effective coat. Tumble agglomeration is a very old and well-known method of size enlargement as taught by Wolfgang.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: U.S. Patent No. 6,156,699 and U.S. Patent No. 3,545,129.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrea M. Valenti whose telephone number is 703-305-

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3010. The examiner can normally be reached on 7:30am-5pm M-F; Alternating Fridays

Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Poon can be reached on 703-308-2574. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrea M. Valenti

Examiner Art Unit 3643

14-December 2004 -

Peter M. Poon

Supervisory Patent Examiner Technology Center 3600